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Docket No. DOG 0101 PA/35319.68

AMENDMENTS TO THE CLAIMS

The claims have been reproduced in their entirety with appropriate indications of their

respective statuses.

1-71. (Canceled)

72. (Previously Presented) A controlled-release composition for topical application to a

substrate, said composition comprising: an oil-in-water emulsion substantially free of lipophilic

solvent and formed by mechanical inversion of a water-in-oil emulsion and an active agent

comprising a protein incorporated into said emulsion, wherein said emulsion has a hydrophilic

phase comprising said active agent, water, and a carrier, and a hydrophobic phase comprising a

silicone component.

73. (Canceled)

74. (Previously Presented) A controlled-release composition as set forth in claim 72 further

comprising a surfactant between said hydrophilic and hydrophobic phases.

75. (Previously Presented) A controlled-release composition as set forth in claim 72 wherein said

carrier is selected from the group of glycerin, propylene glycol, polyethylene glycol, poloxamer,

alcohol, polyhydric alcohol, water, polyvinyl alcohol, polyvinylpyrrolidone, and combinations

thereof.

76. (Previously Presented) A controlled-release composition as set forth in claim 72 wherein said

carrier is in solution with said water.

77. (Previously Presented) A controlled-release composition as set forth in claim 72 wherein said

protein is an enzyme.

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78. (Previously Presented) A controlled-release composition as set forth in claim 77 wherein said enzyme is selected from the group of natural enzymes, synthetic enzymes, engineered enzymes, and combinations thereof.

- 79. (Previously Presented) A controlled-release composition as set forth in claim 77 wherein said enzyme is selected from the group of oxidoreductases, transferases, isomerases, ligases, hydrolases, cutinases, oxidases, reductases, hemicellulases, esterases, pectinases, lactases, peroxidases, laccases, catalases, and combinations thereof.
- 80. (Previously Presented) A controlled-release composition as set forth in claim 77 wherein said enzyme comprises Protease A, Protease B, or LG12.
- 81. (Previously Presented) A controlled-release composition as set forth in claim 74 further comprising a dispersing agent for dispersing said active agent.
- 82. (Previously Presented) A controlled-release composition as set forth in claim 81 wherein said dispersing agent comprises a silicone-based surfactant different from said surfactant.
- 83. (Previously Presented) A controlled-release composition as set forth in claim 72 wherein said silicone component is selected from the group consisting of a silicone gum, a silicone rubber, a silicone elastomer, a silicone resin, high molecular weight silicones, silicone emulsions, and combinations thereof.
- 84. (Previously Presented) A controlled-release composition as set forth in claim 72 wherein said silicone component comprises a pressure sensitive adhesive.
- 85. (Previously Presented) A controlled-release composition as set forth in claim 84 wherein said pressure sensitive adhesive comprises the reaction product of; a hydroxy endblocked polydimethylsiloxane polymer, and a hydroxy functional silicate resin.

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86. (Previously Presented) A controlled-release composition as set forth in claim 85 wherein said

hydroxy functional silicate resin is further defined as a trimethylsiloxy and hydroxy endblocked

silicate resin.

87. (Previously Presented) A controlled release composition as set forth in claim 72 in the form

of a multi-layer dressing for topical application to a substrate, said dressing comprising: (A) a

controlled-release layer formed from said controlled-release composition of claim 72; (B) an

adhesive layer disposed adjacent said controlled-release layer for adhering said dressing to the

substrate; and (C) an additional layer selected from the group of a backing layer, a cushioning

layer, an absorbent layer, a second adhesive layer, and combinations thereof.

88. (Previously Presented) A controlled release composition as set forth in claim 87 wherein said

controlled-release layer is adjacent the substrate and said additional layer is disposed adjacent

said adhesive layer spaced from said controlled-release layer.

89. (Previously Presented) A controlled release composition as set forth in claim 87 wherein said

controlled-release layer is dry in said dressing such that said controlled-release layer is free of

water after said controlled-release layer is formed by said controlled-release composition.

90. (Previously Presented) A method of delivering the controlled release composition of claim

72 to a substrate comprising:

applying the controlled release composition to a dressing; and

applying the dressing to the substrate.

91. (Previously Presented) The controlled-release composition as set forth in claim 72 wherein

said protein is selected from the group of antibodies, polypeptides, peptides, hormones,

cytokines, growth factors, biological modulators, and combinations thereof.

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